

**Dr. Duke's Phytochemical and Ethnobotanical Database**

**Chemicals Found in *Aconitum napellus***

| Activity Count | Chemical         | Plant Part | Low PPM | High PPM | StdDev | Reference Citation   |
|----------------|------------------|------------|---------|----------|--------|--|
| 5              | ACONINE          | Root       | --      | --       |        |  |
| 1              | ACONITIC-ACID    | Leaf       | --      | --       |        | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 26             | ACONITINE        | Root       | --      | --       |        |  |
| 2              | BENZACONINE      | Root       | --      | --       |        |  |
| 102            | CAFFEIC-ACID     | Plant      | --      | --       |        | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 77             | CHLOROGENIC-ACID | Plant      | --      | --       |        | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 23             | CITRIC-ACID      | Plant      | --      | --       |        | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 49             | EPHEDRINE        | Root       | --      | --       |        |  |
| 8              | FRUCTOSE         | Root       | --      | --       |        |  |
| 8              | FRUCTOSE         | Plant      | --      | --       |        |  |
| 4              | HYPACONITINE     | Root       | --      | --       |        |  |
| 8              | INOSITOL         | Leaf       | --      | --       |        | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 15             | MALIC-ACID       | Plant      | --      | --       |        | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 1              | MALONIC-ACID     | Root       | --      | --       |        | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.  |

| Activity Count | Chemical       | Plant Part | Low PPM | High PPM | StdDev              | Reference Citation   |
|----------------|----------------|------------|---------|----------|---------------------|--|
| 2              | MALTOSE        | Plant      | --      | --       |                     |  |
| 2              | MALTOSE        | Root       | --      | --       |                     |  |
| 18             | MANNITOL       | Plant      | --      | --       |                     |  |
| 18             | MANNITOL       | Root       | --      | --       |                     |  |
| 13             | MESACONITINE   | Root       | --      | --       |                     |  |
| 4              | NAPELLINE      | Root       | --      | --       |                     |  |
| 2              | NEOLINE        | Root       | --      | --       |                     |  |
| 2              | NEOPELLINE     | Root       | --      | --       |                     |  |
| 9              | OXALIC-ACID    | Plant      | --      | --       |                     | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 2              | PSEUDACONITINE | Plant      | --      | --       |                     | CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses  |
| 1              | QUINIC-ACID    | Plant      | --      | --       |                     | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 21             | SPARTEINE      | Root       | --      | --       |                     |  |
| 5              | STARCH         | Root       | 250000  | 250000   | -0.2749885194147701 | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 7              | SUCCINIC-ACID  | Root       | --      | --       |                     |  |
| 7              | SUCCINIC-ACID  | Plant      | --      | --       |                     |  |